

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- 1-5. (cancelled).
6. (previously presented) A graphics apparatus, comprising:
a rendering system that renders an object in response to a graphics input, the graphics input including object visibility rules, the rendering system constraining the rendering of the object in accordance with the object visibility rules,
wherein a rendering system includes a ray tracer, the object visibility rules specifying a relationship between light sources and certain rays, the ray tracer looking up a rule associated with one of the light sources when processing the certain rays for the light source.
7. (original) A graphics apparatus according to claim 6, wherein the certain rays include rays originating from the light source and potentially intersecting the object.
8. (previously presented) A graphics apparatus, comprising:
a rendering system that renders an object in response to a graphics input, the graphics input including object visibility rules, the rendering system constraining the rendering of the object in accordance with the object visibility rules,
wherein the rendering system includes a ray tracer, the object visibility rules specifying a relationship between the object and certain rays, the ray tracer looking up a rule associated with the object when processing the certain rays for the object, and
wherein the ray tracer constructs a ray tree associated with the object in accordance with the object visibility rules.
- 9-14. (cancelled).
15. (previously presented) A plug-in application for a modeling system that constructs object visibility rules in response to user input, the object visibility rules being

supplied to a rendering system in a graphics input from the modeling system, the rendering system rendering an object in response to the graphics input, the rendering system constraining the rendering of the object in accordance with the object visibility rules,

wherein the rendering system includes a ray tracer, the object visibility rules specifying a relationship between light sources and certain rays, the ray tracer looking up a rule associated with one of the light sources when processing the certain rays for the light source.

16. (original) A plug-in application according to claim 15, wherein the certain rays include rays originating from the light source and potentially intersecting the object.

17. (previously presented) A plug-in application for a modeling system that constructs object visibility rules in response to user input, the object visibility rules being supplied to a rendering system in a graphics input from the modeling system, the rendering system rendering an object in response to the graphics input, the rendering system constraining the rendering of the object in accordance with the object visibility rules,

wherein the ray tracer constructs a ray tree associated with the object in accordance with the object visibility rules.

18-22. (cancelled).

23. (previously presented) A graphics apparatus comprising:

a scene server that receives a graphics input specifying a plurality of objects and extracts object visibility information from the graphics input; and

a ray tracer coupled to the scene server that determines intersections of rays with certain of the plurality of objects included in a scene, the ray tracer receiving the object visibility information and constraining the ray intersection determination in accordance therewith,

wherein the ray tracer constructs ray trees associated with the certain objects and the intersections, the ray tracer constraining objects to be included in the ray trees in accordance with the object visibility rules.

24-26. (cancelled).

27. (previously presented) A graphics apparatus according to claim 23, further comprising a shader coupled to the ray tracer for determining colors associated with the ray trees.

28-33. (cancelled).

34. (previously presented) A graphics apparatus comprising:
means for receiving a graphics input specifying a plurality of objects;
means for extracting object visibility information from the graphics input; and
means for determining intersections of rays with certain of the plurality of objects in a scene, the determining means including means for receiving the object visibility information and means for constraining the ray intersection determination in accordance therewith,
wherein the determining means further includes means for constructing ray trees associated with the certain objects and the intersections, the constraining means constraining objects included in the ray trees in accordance with the object visibility rules.

35-37. (cancelled).

38. (previously presented) A graphics apparatus according to claim 34, further comprising means for determining colors associated with the ray trees.

39-43. (cancelled).

44. (previously presented) A graphics method comprising:
receiving a graphics input specifying a plurality of objects;
extracting object visibility information from the graphics input; and
determining intersections of rays with certain of the plurality of objects in a scene, the determining step including receiving the object visibility information and constraining the ray intersection determination in accordance therewith,
wherein the determining step further includes constructing ray trees associated with the certain objects and the intersections, the constraining step including constraining objects included in the ray trees in accordance with the object visibility rules.

45-47. (cancelled).

48. (previously presented) A graphics apparatus according to claim 44, further comprising determining colors associated with the ray trees.

49-50. (cancelled).